

# 8673

Diag. Cht. No. 1216-2.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. GI-10-2-62 Office No. H-8673

### LOCALITY

State New Jersey

General locality New Jersey Coast

Locality Beach Haven Inlet

1962

CHIEF OF PARTY

Floyd J. Tucker, Jr.

LIBRARY & ARCHIVES

DATE

**JAN 11 1965**

COMM-DC 61300

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

62752

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. H-8673

Field No. G1 10-2-62

State NEW JERSEY

General locality NEW JERSEY COAST

Locality BEACH HAVEN INLET

Scale 1:10,000 Date of survey 28 Apr. to 12 Aug. 1962

Instructions dated 30 March 1962 & 21 May 1962

Vessel GILBERT

Chief of party FLOYD J. TUCKER, JR.

Surveyed by G.A. MAUL & A.L. MOSHOS

Soundings taken by ~~fathometer~~ graphic recorder, hand lead, ~~wire~~ POLE

Fathograms scaled by SHIP PERSONNEL

Fathograms checked by SHIP PERSONNEL

Protracted by FRED BEAN (Norfolk Processing Branch)

Soundings penciled by FRED BEAN " " "

Soundings in ~~fathoms~~ feet at MLW ~~MLLW~~

REMARKS:

*JMD*



NOTES TO ACCOMPANY DESCRIPTIVE REPORT  
SURVEY H-8673  
Field No. GI-10-2-62  
NEW JERSEY COAST, BEACH HAVEN INLET

Scale 1:10,000  
Ship GILBERT

1962  
Floyd J. Tucker, Jr., Comdg

Surveyed by:

LCDR F.J. Tucker, Jr.  
LTJG G. A. Maul  
ENS A. L. Moshos

A. PROJECT

Instructions for project OPR-432, East Coast Storm Damage Survey, Beach Haven to Ocean City, New Jersey, incorporated Special Project 8-62. Instructions dated as follows:

30 March 1962 (S.P. 8-62)  
21 May 1962 (OPR-432)

B. AREA SURVEYED

For survey limits and general area see attached Index of Hydrographic Sheets. This survey is indicated by red crosshatching.

Little Egg Inlet is characterized by shifting sand shoals and irregular submarine topography. Strong tidal currents have cut steep banks and caused erosion of areas with building up of shoals in others. The surrounding land is flat marshland with numerous rivulets. Bank erosion constantly changes the shoreline. The inlet is marred by breakers more than 90% of the time, and the slightest aggravation of conditions makes navigation hazardous.

Dates of the survey are 28 April to 12 August 1962 inclusive.

Prior surveys with which junctions are made are H-8219, 1:10,000, 1954, on the north; H-8222, 1:20,000, 1954, on the east; H-8221, 1:10,000, 1954, on the south; and H-8220, 1:10,000, 1954, on the west. The new survey approximately covers the area of H-8220.

Contemporary survey with which junction was made is H-8672 (GI-10-1-62) on the south.

### C. SOUNDING VESSEL

The bulk of the sounding was done with launch CS-1176, using a small blue-letter day.

Some shoal areas and mud flats in Great Bay were sounded from a catamaran skiff, using a small red-letter day.

### D. SOUNDING EQUIPMENT

All echo sounding was done with an 808-type fathometer. The serial numbers are as follows: 159 SPX and 161 SPX. All fathometers were calibrated for 820 fathoms/second.

In shoal areas and mud flats which required the catamaran a sounding pole was used.

Velocity corrections were obtained from bar checks taken three times a day, weather permitting.

### E. SMOOTH SHEET

The smooth sheet will be plotted by the Norfolk Office, Hydrographic Processing Section.

### F. CONTROL

Visual control was used for the entire survey. Circles of equal angles were used to plot the offshore areas and three-arm protractors were used to plot the inshore areas.

Project instructions specified the use of circles of equal angles instead of extended-arm protractors. This was accomplished by using BRIG to FISH, colored in blue arcs on the boat sheet and FISH to EACH in red arcs. Computations were necessary for these arcs as both the left and right objects were off the sheet. (See accompanying diagram.)

On BRIG to FISH, an inverse was computed to determine the distance and azimuth. Then plane triangles C-BRIG-FISH and F-BRIG-FISH were computed. Next the geodetic position of points "C" and "F" was determined. Then the distances along the lines BRIG-C and BRIG-F were computed for the various angles. The arcs were then drawn with the use of a three-arm steel protractor.

An inverse was computed between FISH and EACH. A geodetic position was determined for the mid-point, which fell on the boat sheet. Next a geodetic position was

computed for a point on the line of centers, which also fell on the boat sheet. Between these points the line of centers was drawn. With the use of signal FISH and the line of centers, the arcs were graphically drawn with a beam compass.

Triangulation stations were used for the circles of equal angles. Other signals were located by planetable, three-point theodolite fix, use of prior survey sheets, and hydrographic means. Reference should be made to Planetable Sheet "B", Planetable Sheet "E", T-9505N (RS780), T-9501S (RS776), volumes 1 and 2 (Form 251a), H-8221, H-8220, H-6144 and volume 5 of hydrographic record books.

#### G. SHORELINE

Shoreline on the boat sheet is from photo manuscripts T-9501S (RS 776) and T-9505N (RS 780). The outer coast of these manuscripts was revised by a sub-unit of photogrammetric field party No. 720 on 7 and 8 June.

The manuscripts were revised from aerial photographs taken in March and May of 1962. This revision encompassed the outer coast only. The original manuscripts were compiled and checked in February and March of 1952 for a hydrographic survey conducted in 1954. Shoreline for this survey was not revised by the hydrographic party since the photo party was working on the project.

The low-water line was not completely defined by the soundings on the outer coast because of surf conditions. All other areas were defined completely; however, along certain areas the drop-off was sheer, and the soundings indicate the base of the ledge. This sheer cut was caused by severe tidal currents along the marsh banks.

Shoreline for the smooth sheet should be taken from the new manuscripts whenever available.

#### H. CROSSLINES

Crosslines were run to an extent of about 8% of the regular scheme. Crosslines are in good agreement throughout the survey. Discrepancies in soundings on the boat sheet were resolved by checking the actual tides and re-scanning the fathograms. These discrepancies were caused mostly by inexperience of fathometer readers and were readily resolved.

## I. JUNCTIONS

Junctions made with contemporary survey H-8672 (GI-10-1-62) on the south were in general agreement.

Offshore junctions with H-8222 were generally good as the 30-foot curves coincided well. The inshore side of the sheet was developed to the limit of the rapidly changing area, so that a future survey by a shore-based unit can junction with it.

## J. COMPARISON WITH PRIOR SURVEY

There was no pre-survey review received with this project. No comparison of the boat sheet was made with prior surveys.

## K. COMPARISON WITH CHART

Comparison with chart 1216, scale 1:80,000, ninth edition, revised 6 November 1961, shows general disagreement inside the 30-foot curve. Shoreline is continually changing because of strong tidal currents and meteorological disturbances. These same effects cause constant bottom changes and a detailed comparison would be impractical.

A 24-foot wire-dragged obstruction in Latitude  $39^{\circ} 29.8'$  and Longitude  $74^{\circ} 15.5'$  was not verified by a fathometer search. Its removal from the chart is not recommended until a wire-drag party can re-investigate. *See accompanying overlay*

## L. ADEQUACY WITH CHART

The survey is complete and adequate as the shifting bottom and changing shoreline permit. The survey should supersede prior surveys for charting, but mariners should be cautioned regarding changing conditions in the inshore areas.

## M. AIDS TO NAVIGATION

One class "A" offshore buoy, painted black and white, in Lat.  $39^{\circ} 30.7'$ , Long.  $74^{\circ} 15.3'$ , was located and found to be properly charted. Its description as a short-long flashing light with a bell is also correct.

A series of mid-channel class "C" buoys marking the entrance and channel to Shooting-Thorofare should not be

charted. They were located by the hydrographic party, but because of the constantly changing nature of the bottom they are moved frequently, and their locations are of little value.

Other aids, both fixed and floating, were compared with the light lists and charts 1216 and 826. These were found to be adequate for their purpose and properly located. Cable areas as shown on the charts are correct, and properly marked. They offer no apparent danger to navigation.

#### N. STATISTICS

<u>Vessel</u>	<u>Number of Positions</u>	<u>N.M. of Sounding Lines</u>
Ship GILBERT	0	0.0
Launch CS-1176	5295	677.1
Skiff	1004	91.5
Total:	6299	768.6
Total area surveyed:	15.2 square miles	
Bottom samples:	191	
Tide stations:	1	

Respectfully submitted:

*George A. Maul*

George A. Maul  
LTJG, C&GS

TIDE NOTE

One tide gage was used to control the tidal data for this survey. It was located south of the fish factory on Seven Islands in Great Bay in Lat.  $39^{\circ} 31' 0''$  N. and Long.  $74^{\circ} 20' 3''$  W. Time meridian  $75^{\circ}$  W. (ZD +5) was used for times on the gage. No other time corrections, other than minor irregularities in the gage, were applied. Mean low water was 3.5 feet on the staff and all heights recorded on the marigram should be corrected by this amount.

NORFOLK HYDROGRAPHIC PROCESSING BRANCH  
FLOATING AIDS TO NAVIGATION  
H-8673

<u>BUOY</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>DEPTH</u>	<u>POS. NO.</u>	<u>DATE</u>
LITTLE EGG WATERWAY					
Buoy 80	39-32.10'	74-16.40'	20'	67e	5-17-62
Buoy 81	32.15	16.20	10	68e	"
Buoy 83	31.77	16.70	24	69e	"
Buoy 82	31.82	16.78	19	70e	"
Buoy 84	31.65	17.11	15	71e	"
Buoy 87	31.53	17.33	10	72e	"
Buoy 88	31.37	17.67	21	81e	"
Buoy 89	31.35	17.60	8	79e	"
Buoy 89A	31.15	17.65	11	82e	"
Ltd. Buoy 90	31.10	17.86	26	83e	"
Buoy 91	30.88	17.90	28	39d	5-22-62
Buoy 94	30.72	18.19	12	46d	"
Buoy 95	30.52	18.27	7	47d	"
Buoy 78	32.59	16.48	22	177f	5-25-62
GREAT BAY WATERWAY					
Buoy 24	29.05	22.51	9	4e	5-24-62
Buoy 23B	29.09	22.53	4	5e	"
Buoy 23A	29.19	22.69	4	6e	"
Buoy 23	29.40	22.90	5	7e	"
Buoy 21	29.90	22.90	5	8e	"
Buoy 18	30.05	22.30	7	9e	"
Buoy 16	30.10	21.95	6	10e	"
Buoy 17	30.07	21.90	12	11e	"
Buoy 12	30.22	21.55	8	12e	"
Buoy 9	21.16	30.35	8	13e	"
Buoy 8A	30.39	21.00	8	14e	"
Buoy 8	30.42	20.75	11	15e	"
Buoy 5	30.46	20.27	8	17e	"
Buoy 3	30.33	19.60	-	761	5-31-62
BEACH HAVEN INLET					
Lt'd. Bell Buoy	30.80	15.29	28	72y	6-17-62
Lt'd. Buoy "E"	30.71	17.67	18	41d	5-22-62
Buoy "D"	30.68	17.45	19	42d	"
Buoy "C"	30.60	17.06	14	43d	"
Buoy "B"	30.55	16.71	11	44d	"
Buoy "A"	30.40	16.40	9	45d	"
Buoy "F"	30.85	17.81	38	40d	"
BRIGANTINE WATERWAY					
Buoy 24A	28.93	22.68	4	3e	5-24-62

continued

FLOATING AIDS TO NAVIGATION  
H-8673

<u>BUOY</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>DEPTH</u>	<u>POS. NO.</u>	<u>DATE</u>
LITTLE EGG INLET					
Buoy "G"	39-30.02'	74-18.18'	-	1k	5-29-62
Lt'd. Buoy "F"	29.78	18.13	-	2k	"
Buoy "E"	29.35	18.00	-	38b	5- 9-62
Buoy "D"	29.01	17.89	-	39b	"
Lt'd. Buoy "C"	28.75	17.66	-	40b	"
Buoy "B"	28.68	17.28	-	41b	"
MARSHELDER CHANNEL					
Buoy 4	32.40	17.51	10	75c	5-17-62
Buoy 5	32.48	17.86	10	76c	"
Buoy 3	32.13	17.40	7	77c	"
Buoy 2	31.82	17.30	12	78c	"



# LIST OF STATIONS ON H-8673 (GI-10-2-62)

Code	Name Used in Hydrographic Survey	Origin of Station	Remarks
035-ACE	Planetable Sheet "E"	Little Egg Waterway light	"79" (LL. 2087)
072-BAY	BAY, 1935		
097-BIB	C.S. 9-62, vol. 1 (Form 251a)	T-9505N	(RS-780)
137-BIG	Planetable Sheet "E"	T-9501S	(RS-776)
169-BOO	C.S. 14-62, vol. 2 (Form 251a)	T-9505N	(RS-780)
173-COT	C.C. 02, vol. 2 (Form 251a)	T-9505N	(RS-780)
185-CUP	Bonds Coast Guard Station, cupola, 1935		
196-DAM	Sounding vol. 5, pg. 55	Hydro signal	
206-EAR	Planetable Sheet "B"	Great Bay Waterway light	"10" (LL. 2093)
241-FAT	Planetable Sheet "B"	Great Bay Waterway light	"14" (LL. 2094)
257-FIG	H-8221	Theodolite cuts	1962
269-FISH	Seven Islands fish factory, water tank, 1950		
285-FOE	C.S. 3-62, vol. 1 (Form 251a)	T-9501S	(RS-776)
293-FUN	Planetable Sheet "E"	T-9501S	(RS-776)
305-GAS	Planetable Sheet "B"	Great Bay Waterway light	"19" (LL. 2095)
314-GOO	Planetable Sheet "E"		
351-GUT	C.S. 15-62, vol. 2 (Form 251a)	T-9505N	(RS-780)
362-HEE	Sheephead, 1935		
374-HER	Planetable Sheet "B"	Great Bay Waterway light	"20" (LL. 2096)
385-HIS	Planetable Sheet "E"		
397-JAW	Planetable Sheet "B"	Great Bay Waterway light	"22" (LL. 2097)
409-KID	Planetable Sheet "B"	Brigantine Waterway light	"25" (LL. 2098)
415-LAD	C.S. 1-62, vol. 1 (Form 251a)	T-9501S	(RS-776)
427-LET	LETTUCE, (C & N), 1935		
461-LIT	Planetable Sheet "E"	Little Egg Waterway light	"96" (LL. 2090)
479-LOG	Planetable Sheet "B"		
481-MAIN	MAIN, 1935		
497-NEW	H-8220	Theodolite cuts	1962
502-NIG	C.S. 2-62, vol. 1 (Form 251a)	T-9501S	(RS-776)
513-OFF	Planetable Sheet "E"		
527-OUT	H-8220	Theodolite cuts	1962
539-OYSTER	OYSTER, 1950-35		
572-PAL	Planetable Sheet "B"	Great Bay Waterway light	"6" (LL. 2092)

583-PIE	Planetable Sheet "E"	
591-POLE	POLE, 1935	
605-RAG	Planetable Sheet "E"	
613-SHE	Planetable Sheet "E"	T-9501S (RS-776)
629-SHO	SHOOTING, 1935	
634-TIN	C.S. 13-62, vol. 2 (Form 251a)	T-9505N (RS-780)
649-TOP	H-6144 H-8220	Theodolite cuts 1962
682-TOW	Planetable Sheet "B"	
691-WIN	Planetable Sheet "E"	T-9501S (RS-776)
704-WOO	H-8220	Theodolite cuts 1962
719-YET	Planetable Sheet "E"	T-9501S (RS-776)

### CIRCLES OF EQUAL ANGLES

BLUE:	BRIG to FISH	
RED:	FISH to EACH	
BRIG	Brigantine elevated water tank, 1950	Off sheet
FISH	Seven Islands fish factory, water tank, 1950	
EACH	Beach Haven, water tank, 1935	Off sheet

*Note - all fixes using ~~these~~ ~~the~~ signals have been given new angles using signals that fall on the Smooth Sheet.*

*Newly established signals:*

- 1) 809 (lat.  $39^{\circ}28'30''$  long.  $74^{\circ}18'00''$ )
- 2) 823 (lat.  $39^{\circ}30'00''$ , long.  $74^{\circ}17'30''$ )
- 3) 857 (lat.  $39^{\circ}30'30''$ , long.  $74^{\circ}15'30''$ )
- 4) 860 (LAT.  $39^{\circ}29'00''$  Long.  $74^{\circ}15'00''$ )

# ABSTRACT OF VELOCITY CORRECTIONS

OPR - 432

H - 8673

	CORRECTIONS	TO	DEPTH
27 April to 17 May	0.0 ft. -0.2 ft. -0.4 ft. -0.6 ft.		6.0 ft. 11.5 ft. 17.0 ft. 50.0 ft. 1
22 May to 27 May	0.0 ft. -0.2 ft.		30.0 ft. 50.0 ft. 2
28 May	0.0 ft. 0.2 ft. 0.4 ft.		5.0 ft. 34.0 ft. 50.0 ft. 3
29 May to 17 June	0.0 ft. -0.2 ft. -0.4 ft. -0.6 ft.		3.0 ft. 14.0 ft. 31.0 ft. 50.0 ft. 4
18 June to 4 July	0.0 ft. <del>-0.2 ft.</del> <del>-0.4 ft.</del>		50.0 ft. <del>27.5 ft.</del> <del>50.0 ft.</del> 5
5 July to 20 July	-0.2 ft. -0.4 ft.		27.5 ft. 50.0 ft. 6
22 July to 2 Aug.	0.0 ft.		50.0 ft. 7
3 Aug.	-0.8 ft. -0.1 ft.		15.0 ft. 50.0 ft. 8
4 Aug. to 24 Aug.	0.0 ft. -0.2 ft. 0.0 ft. 0.2 ft.		10.0 ft. 23.0 ft. 45.0 ft. 50.0 ft. 9

For explanation of methods used to determine corrections and data refer to Fathometer report.

ABSTRACT OF SETTLEMENT & SQUAT CORRECTIONS

OPR - 432

Ship GILBERT

LAUNCH CS - 1176

1962 FIELD SEASON

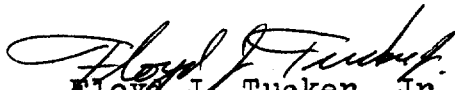
<u>RPM</u>	<u>CORRECTIONS</u>
0 - 1400	0.0
1401 - 2250	0.2
2251 - 2500	0.4
(Dragging)	0.0

Refer to fathometer report for details and data.

## APPROVAL SHEET

The boat sheet and records, through scanning of the fathograms, and determination of velocity and tidal corrections, are complete and approved. The boat sheet and sounding volumes were examined daily during the survey.

The survey is complete and adequate for charting. The only additional field work recommended is a wire-drag survey of the charted wrecks or obstructions not proved by this survey.



Floyd J. Tucker, Jr.

LCDR, C&GS

Commanding Ship GILBERT

NORFOLK HYDROGRAPHIC PROCESSING BRANCH  
ADDENDUM  
To Accompany

HYDROGRAPHIC SURVEY H-8673 (Gi 10-2-62)

GENERAL

This appears to be an excellent basic survey in an area of irregular and changeable bottom. Soundings are in good agreement at crossings and development is close enough to delineate relatively minor bottom features with depth curves. Hydrography on a and b days was reconnaissance work to determine the extent of changes caused by the storm of March 1962. Soundings on b day were in good agreement with later hydrography, but those on a day were in general disagreement because of erratic fathometer speed. All soundings were omitted on "a" day as the sheet is well developed and time spent applying corrections and reprocessing records was not warranted.

OVERLAYS

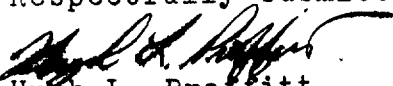
In order to avoid undue congestion on the smooth sheet the following positions and soundings are being submitted on smooth overlays.

1 ca to 32 ca; 24 cb to 179 cb; 29 ta to 44 ta; 153 va to 162' va

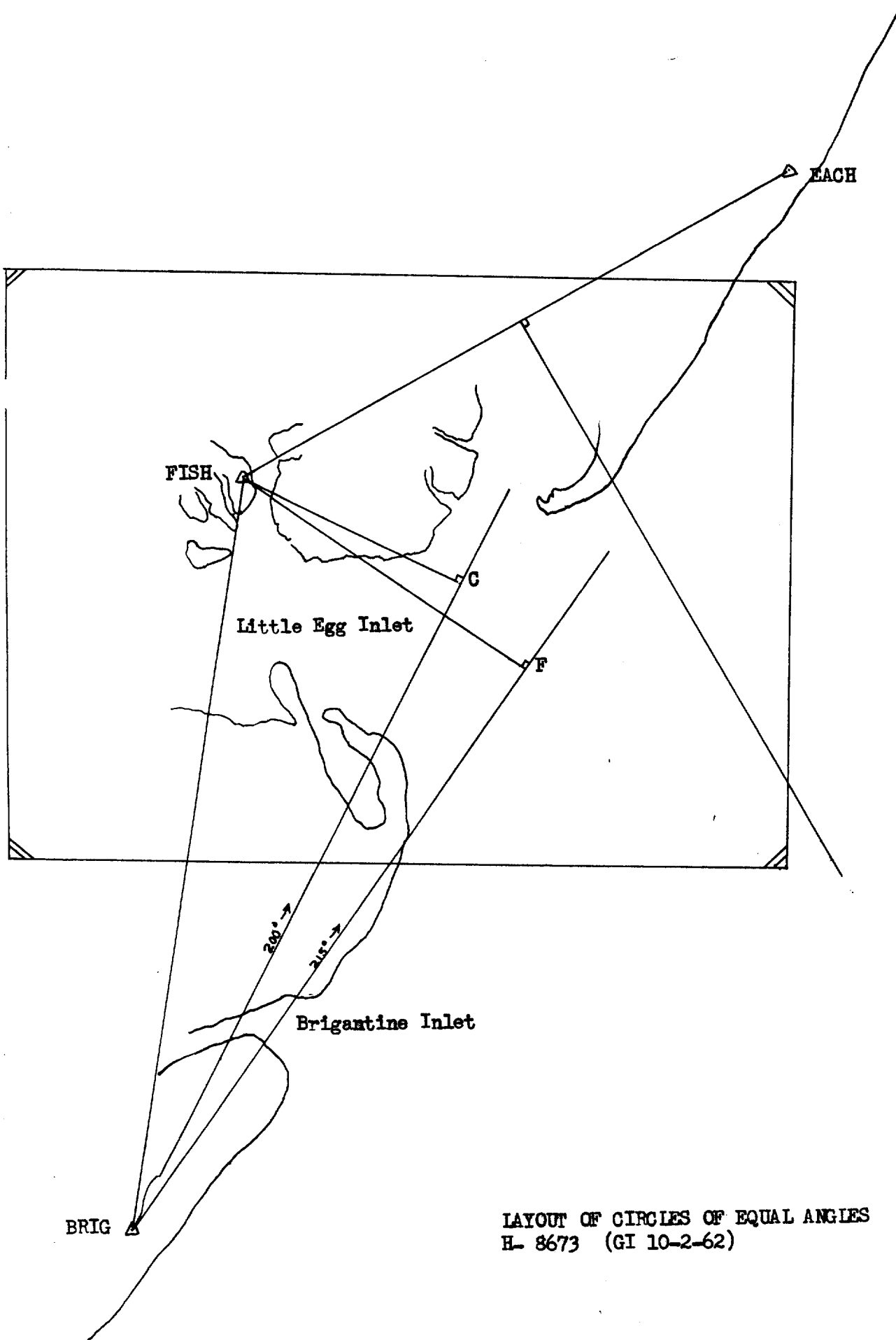
CHART COMPARISON

An acetate overlay showing a comparison with chart 826 is being forwarded with the survey.

Respectfully submitted,

  
Hugh L. Proffitt  
Cartographer

Norfolk, Va.  
5 Jan. 1965



LAYOUT OF CIRCLES OF EQUAL ANGLES  
H- 8673 (GI 10-2-62)

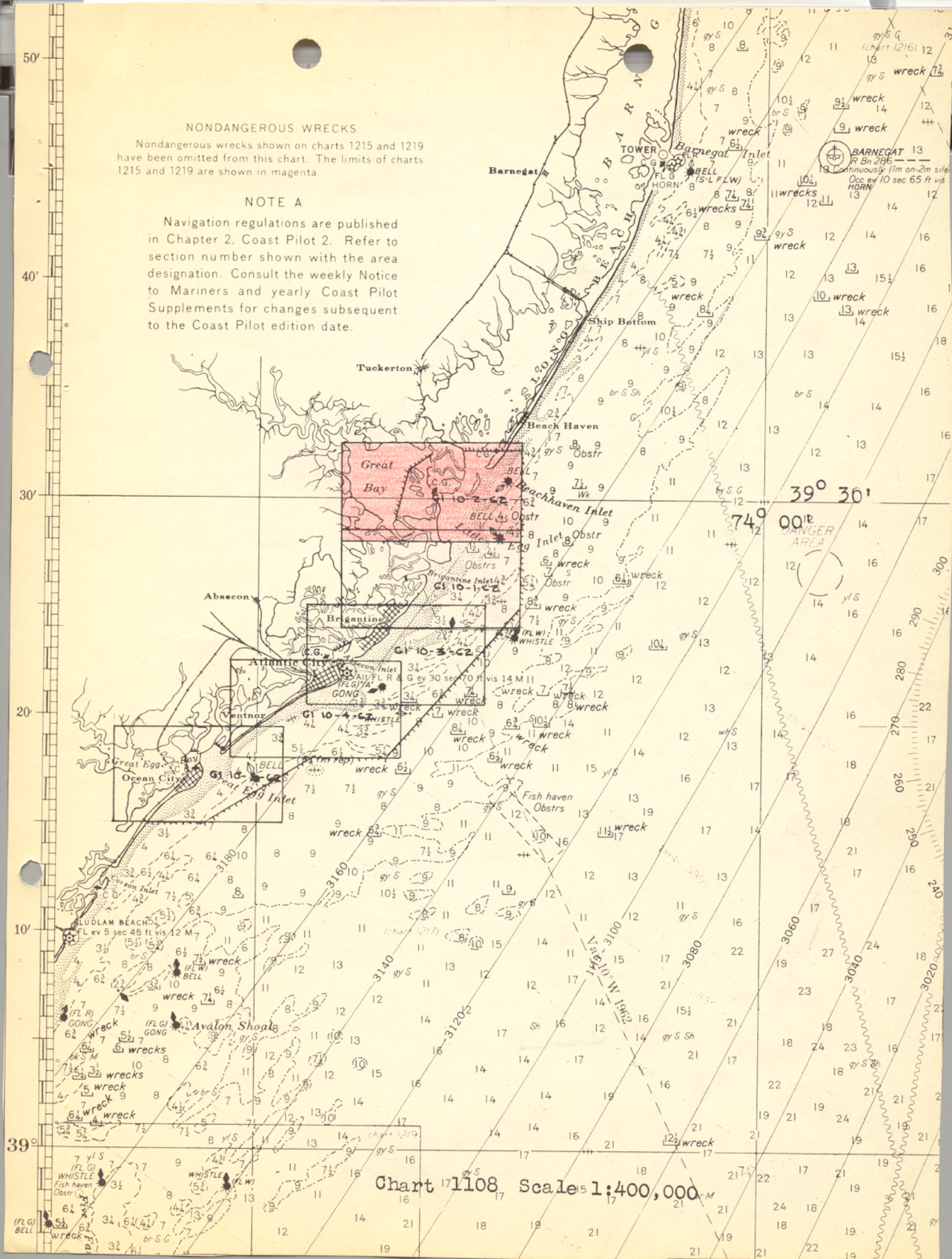


# NONDANGEROUS WRECKS

Nondangerous wrecks shown on charts 1215 and 1219 have been omitted from this chart. The limits of charts 1215 and 1219 are shown in magenta

## NOTE A

Navigation regulations are published in Chapter 2, Coast Pilot 2. Refer to section number shown with the area designation. Consult the weekly Notice to Mariners and yearly Coast Pilot Supplements for changes subsequent to the Coast Pilot edition date.







HYDROGRAPHIC SURVEY STATISTICS  
HYDROGRAPHIC SURVEY NO. 8673

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.

RECORD DESCRIPTION		AMOUNT	RECORD DESCRIPTION		AMOUNT	
SMOOTH SHEET		1	BOAT SHEETS		1	
DESCRIPTIVE REPORT		1	OVERLAYS		5	
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES	2-Cahiers					
CAHIERS	1					
VOLUMES	29					
BOXES						

T-SHEET PRINTS (List)

RS#776, 777, 778 & 780

SPECIAL REPORTS (List)

1-Control sheet "E" (Mylar) & 3-Graphic Control Sheets B,C&D.

OFFICE PROCESSING ACTIVITIES

The following statistics will be submitted with the cartographer's report on the survey

PROCESSING ACTIVITY	AMOUNTS			
	PRE-VERIFICATION	VERIFICATION	REVIEW	TOTALS
POSITIONS ON SHEET				
POSITIONS CHECKED				
POSITIONS REVISED				
DEPTH SOUNDINGS REVISED				
DEPTH SOUNDINGS ERRONEOUSLY SPACED				
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED				
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS				
JUNCTIONS				
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS				
SPECIAL ADJUSTMENTS				
ALL OTHER WORK				
TOTALS				
PRE-VERIFICATION BY		BEGINNING DATE	ENDING DATE	
VERIFICATION BY		BEGINNING DATE	ENDING DATE	
REVIEW BY		BEGINNING DATE	ENDING DATE	

# **VERIFIER'S REPORT** **HYDROGRAPHIC SURVEY, H -8673**

**INSTRUCTIONS** - This form serves to identify items of a check list in verification together with items which are separately reported to the Reviewer. The form is not to be forwarded to the Reviewer. A report, which is prepared for the Reviewer, should identify items by number and letter and will be filed in the Descriptive Report until the survey is reviewed.

**CL - Check List Items:** should be checked as having been completed during the verification processes.

**R - Report Item:** This column refers to those items reported to the reviewer and is used to indicate the items discussed.

Part I - DESCRIPTIVE REPORT	CL	R	Part III - JUNCTIONS (Continued)	CL	R
<b>Note:</b> The verifier should first read the Descriptive Report for general information and problems.  1. The Descriptive Report was consulted, paragraphs checked if found satisfactory, and notations were made in soft black pencil regarding action taken. Remarks Required: -- None			<b>10. Junctions with contemporary surveys were satisfactory except as follows:</b>  Remarks Required: -- Consider conditions after adjustments have been made; note adjustments made. Make special notes of Butt junctions and areas which are <b>SUPERSEDED</b> .		
2. Soundings originating with the survey and mentioned in the Descriptive Report have been verified and checked in soft black pencil, including latitude and longitude, together with position identification. Remarks Required: -- None			<b>Part IV - VOLUMES</b> <b>11. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken and exceptions noted in the volumes.</b>  Remarks Required: -- None		
3. All reference to survey sheets mentioned in the Descriptive Report should include registry number and year. Remarks Required: -- None			<b>12. Condition of sounding records was satisfactory except as follows:</b>  Remarks Required: -- Mention deficiencies in completeness of notes or actions for the following:  (a) rocks (b) line turns (c) position values of beginning and ending of lines (d) bar check or velocity correctors (e) time recording (f) notes or markings on fathograms (g) was reduction of soundings accurately done? (h) was scanning accurate? (i) were peaks at uneven intervals missed? (j) were stamps completed? (k) references to adjacent features		
<b>Part II - SHORELINE AND SIGNALS</b> 4. Source of shoreline signals Remarks Required: -- List all surveys  a. Give earliest and latest dates of photographs  b. Field inspection date c. Field Edit date d. Reviewed-Unreviewed			<b>Part V - PROTRACTING</b> <b>13. All positions verified instrumentally were check marked in color in the sounding records, and verifier initialed the processing stamp.</b>  Remarks Required: -- None		
5. The transfer of contemporary topographic information was carefully examined and reconciled with the hydrography. Remarks Required: -- Discuss remaining differences.			<b>14. The protracting and plotting of all unsatisfactory crossings were verified.</b>  Remarks Required: -- None		
6. The plotting of all triangulation stations, topographic stations and hydrographic signals has been checked and noted in processing stamp No. 42 on the smooth sheet. Remarks Required: -- None			<b>15. All detached positions locating critical soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible.</b>  Remarks Required: -- None		
7. Objects on which signals are located and which fall outside of the high-water line have been described on the sheet. Remarks Required: -- List those signals still unidentified.					
<b>Part III - JUNCTIONS</b> <b>Note:</b> Make a cursory comparison preliminary to inking soundings in area of overlap.  8. All junctions of contemporary or overlapping sheets were transferred in colored ink and overlapping curves were made identical. Remarks Required: -- None					
9. The notation in slanted lettering "JOINS H--- (19 )" was added in colored ink for all verified contemporary adjoining or overlapping sheets. Those not verified are shown in pencil. Remarks Required: -- None					

Part V - PROTRACTING (Continued)	CL	R	Part VIII - AIDS TO NAVIGATION	CL	R
16. The protracting was satisfactory except as follows: Remarks Required: -- Refers to protracting in general except for specific faults repeated often, or faults in control information, which required considerable replotting or adjustments.			26. All fixed aids located together with those on the contemporary topographic sheets, have been shown on the survey.  Remarks Required: -- Conflicts of any nature listed.		
17. The protractor has been checked within the last three months. Remarks Required: -- Date of check, type of protractor and number.			27. All floating aids listed in the Descriptive Report should be verified and checked in soft black pencil, including latitude and longitude and position identification.  Remarks Required: -- None		
Part VI - SOUNDINGS			Part IX - BOATSHEET		
18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: -- None			28. The boat sheet was constantly compared with the smooth sheet with reference to notes, position of sounding lines and supplemental information. Remarks Required: -- None		
19. Sounding line crossings were satisfactory except as follows: Remarks Required: -- Discuss adjustments.			29. Heights of rocks awash were correctly reduced and compared with topographic information. Remarks Required: -- Note excessive conflicts with topographic information.		
20. The spacing of soundings as recorded in the records was closely followed; Remarks Required: -- None			Part X - GENERAL		
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. Remarks Required: -- None			30. All information on the sheet is shown in accordance with figures 82 and 83 in the Hydrographic Manual (Pub. 20-2).  Remarks Required: -- None		
22. The smooth plotting of soundings was satisfactory except as follows: Remarks Required: -- Refer to legibility, errors in spacing, and errors in numbers - but not to errors in scanning.			31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: -- None		
Part VII - CURVES			32. Degree, minute values and symbols have been checked; also electronic distance arcs have been properly identified and checked on the smooth sheet.  Remarks Required: -- None		
23. The depth curves have been inspected before inking. Remarks Required: -- By whom was the penciled curves inspected.			33. The bottom characteristics are adequately shown. Remarks Required: -- None		
24. The low-water line and delineation of shoal areas have been properly shown in accordance with the following: a. From T-Sheet in dotted black lines b. From soundings in orange c. Approximate position of sketched curve is dashed orange d. Approximate position of shoal area not sounded in black dashed  Remarks Required: -- None			Part XI - NOTES TO THE REVIEWER		
25. Depth curves were satisfactory except as follows: (This statement should not refer to the manner in which the curves were drawn). Remarks Required: -- Indicate areas where curves could not be drawn completely because of lack of soundings. For some inshore areas a general statement is sufficient.			34. Unresolved discrepancies and questionable soundings.		
			35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy.		
			36. Supplemental information.		
Verified by			Date		

TIDE NOTE FOR HYDROGRAPHIC SHEET

6/9/65

Nautical Chart Division: **R. H. Carstens**

Plane of reference approved in  
**29** volumes of sounding records for

HYDROGRAPHIC SHEET **8673**

Locality: **Beach Haven Inlet, New Jersey**

Chief of Party: **F. J. Tucker Jr.**

Plane of reference is **mean low water**

Tide Station Used (Form C&GS-681):

**Crab Island, Seven Islands, N. J.**

Height of Mean High Water above Plane of Reference is as follows: **3.4 ft.**

Remarks

  
Chief, Tides and Currents Branch



$21'$ 

A hand-drawn crosshair on a piece of lined paper. The crosshair consists of two perpendicular lines intersecting at the center. The lines are drawn with a dark pen or marker. The background is a piece of white paper with faint horizontal lines.

 $39^{\circ} 31'$ [illegible]

21'

 $39^{\circ} 30'$  $74^{\circ} 20'$ 

GI 10-2-62

June 22, 1962

from Pos'n 1ca

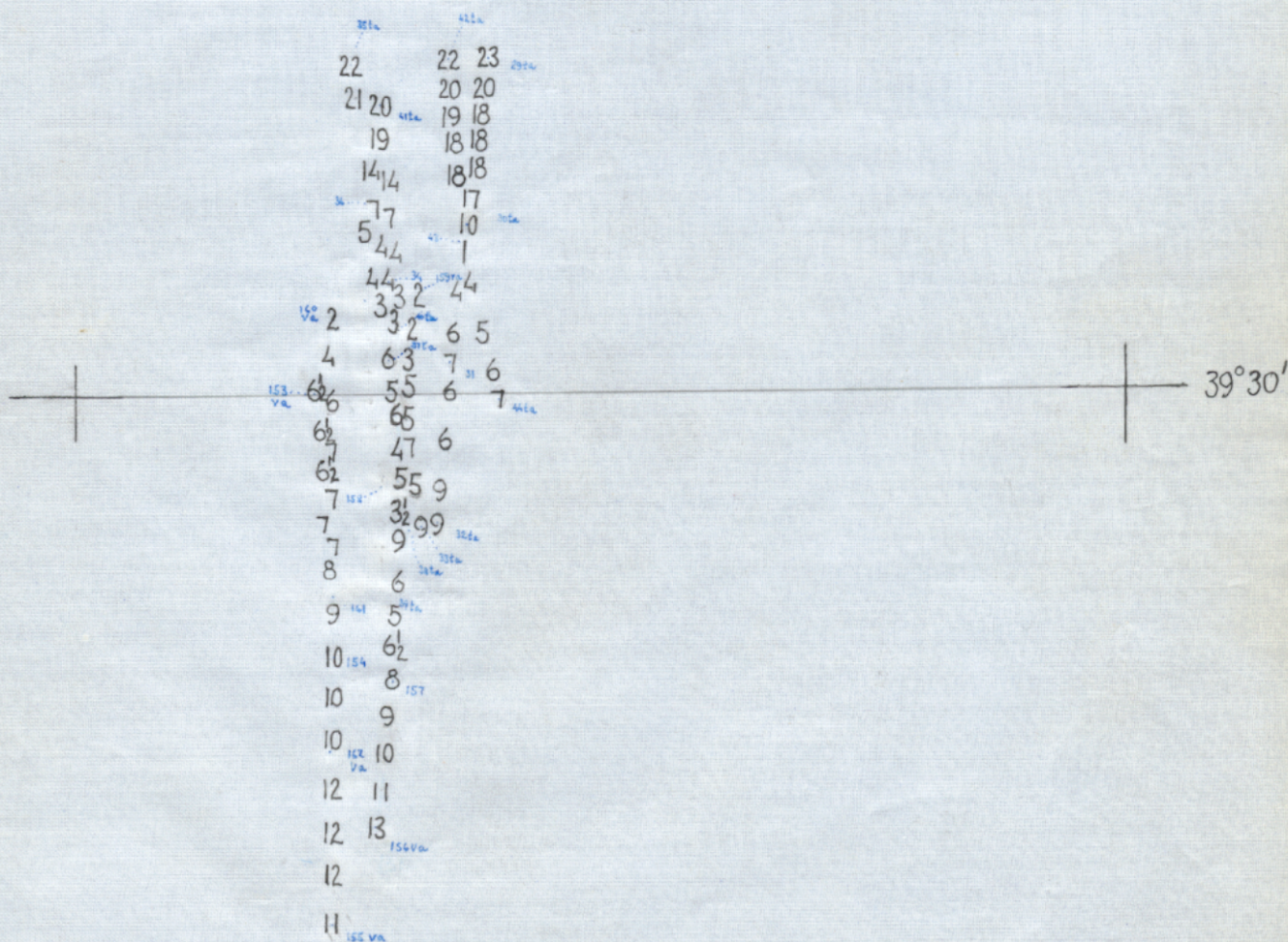
through

H 8673

Posin 32ca

Launch 1176





overlay to accompany.

GI 10-2-62

July 12, 1962  
July 20, 1962

H 8673

from Pos'n 29ta  
and Pos'n 153va  
Vol. # 24

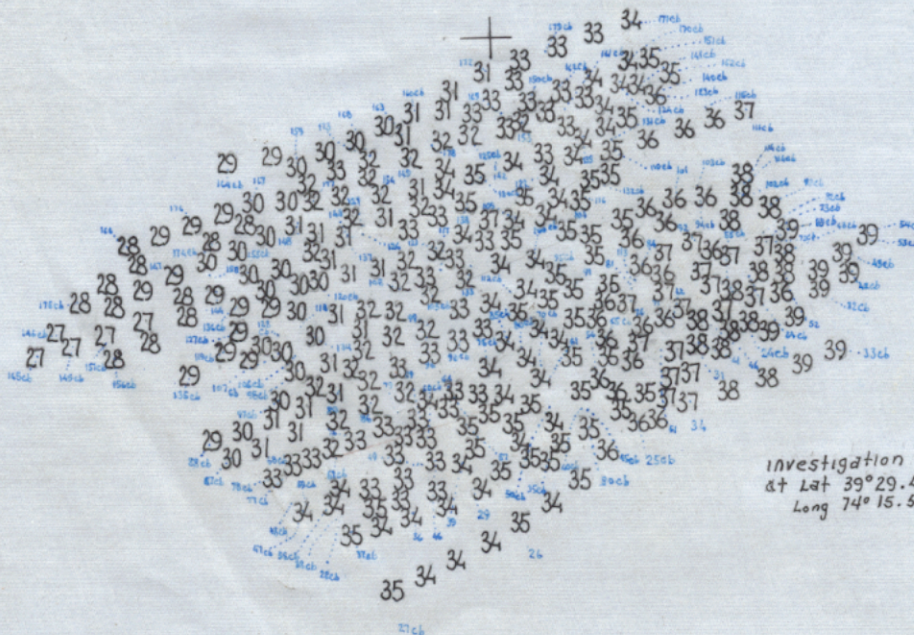
through

Pos'n 44ta  
Pos'n 162va  
Launch 1176

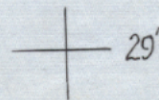




74° 15'  
39° 30'



Investigation of wire dragged abt L241  
at Lat 39°29.42'  
Long 74°15.50'



Overlay to accompany.

GI 10-2-62

AUGUST 12, 1962

H8673

From Pos'n 2406

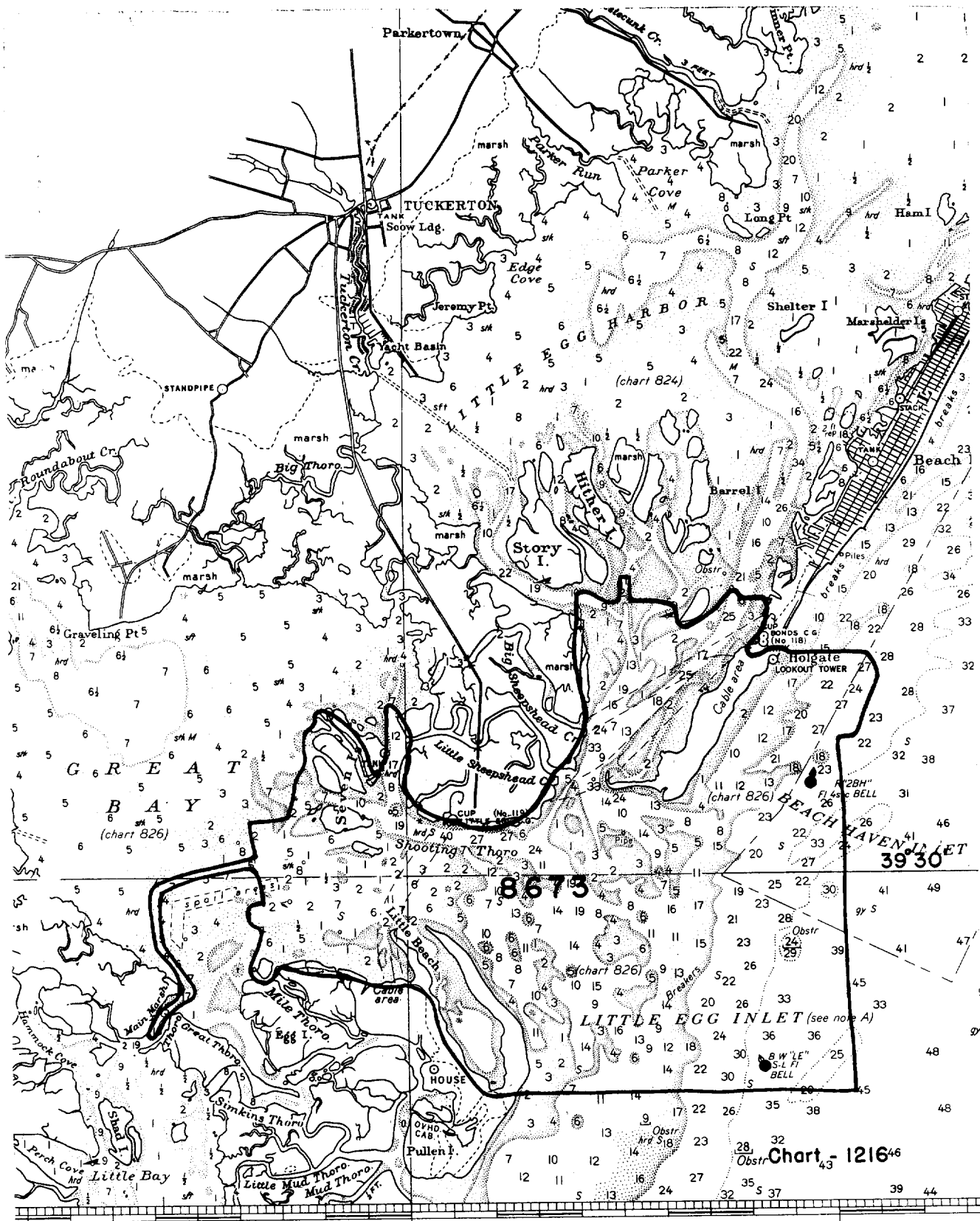
through

Pos'n 17906

Vol. #29

Launch 1176





74° 20'

15'

Chart - 121646

## RECORD OF APPLICATION TO C RTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-8673 (1962)

## INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
B26-SC	2nd. Ed.	Kennon, D.J.	<del>Part</del> Part Before <del>After</del> Verification Review Inspection Signed <del>Via</del> Drawing No. <i>direct application.</i>
1108	6-16-65	J.T. Gallahan	<del>Part</del> Part Before <del>After</del> Verification Review Inspection Signed Via Drawing No. <i>No revision</i>
1216	6/15/65	J. Heaton	<del>Part</del> Part Before <del>After</del> Verification Review Inspection Signed Via Drawing No. <i>stet</i>
1217	2/7/66	Jane Heaton	<del>Part</del> Part Before <del>After</del> Verification Review Inspection Signed Via Drawing No.
1108	12/4/78	Bill Wamless	<i>Adequate</i> <del>Full Part</del> Part Before <del>After</del> Verification Review Inspection Signed Via Drawing No. <i>48 (Adequate Application)</i> <i>Class #1</i>
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
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